Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title COMPUTER SYSTEM Attorney Name. Douglas P. Mueller Phone No.: 612.371.5237 Sheet 1 of 11

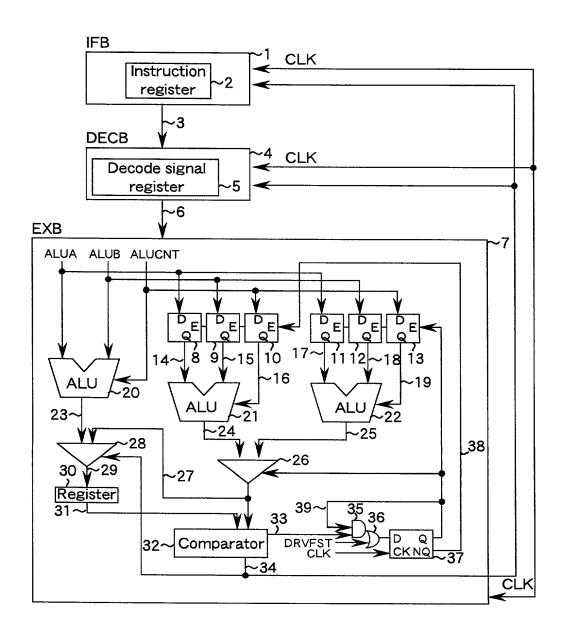


FIG. 1

Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P Mueller Phone No: 612.371.5237

Sheet 2 of 11

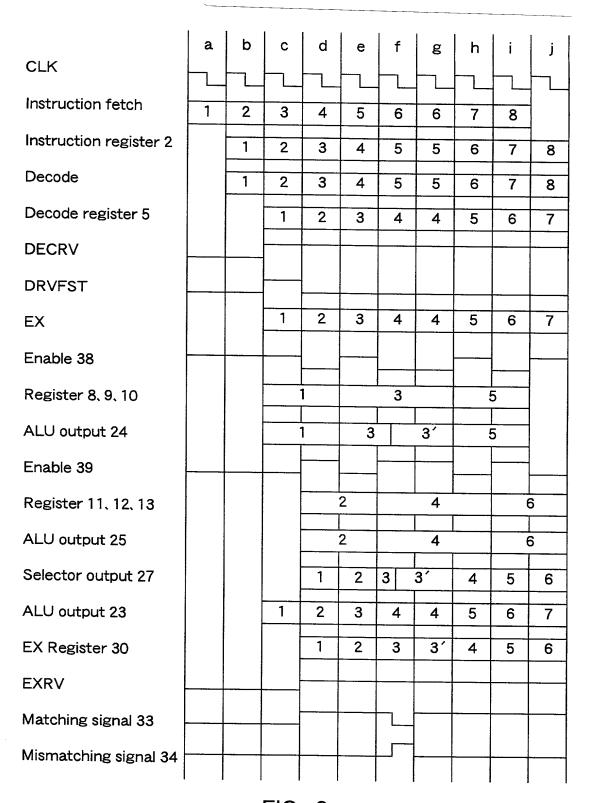


FIG. 2

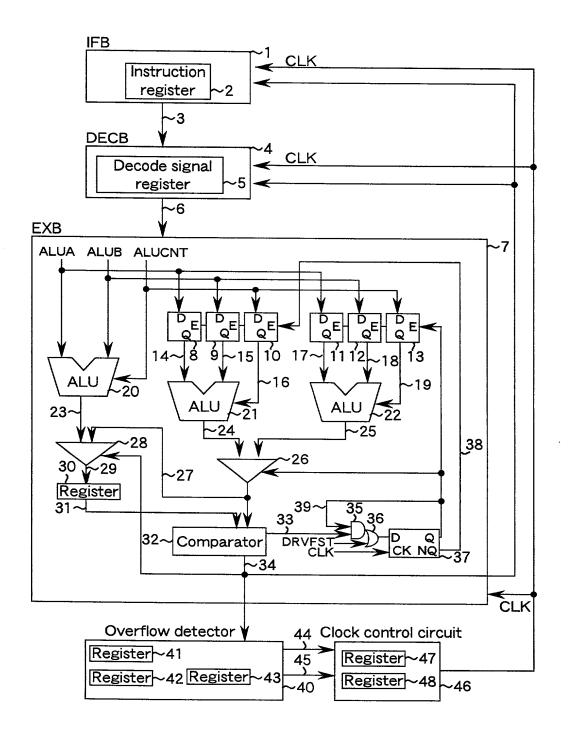


FIG. 3

Inventor: Akimitsu SHIMAMURA DocketsNo.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No.: 612 371.5237 Sheet 4 of 11

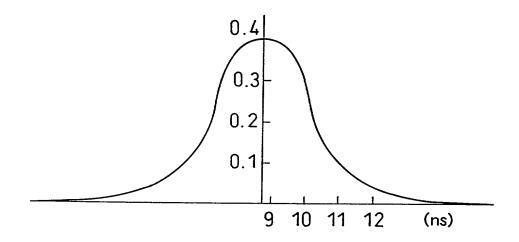
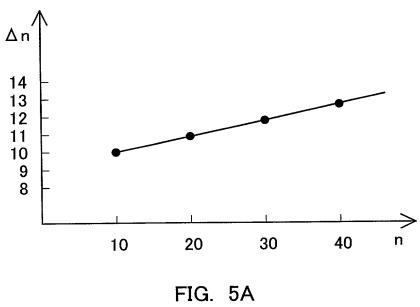
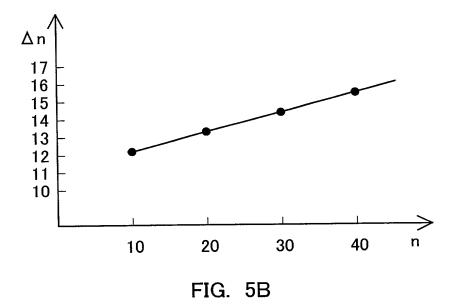


FIG. 4

Inventor: Akimitsu SHIMAMURA Doaket No.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No.: 612.371 5237 Sheet 5 of 11





Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No.: 612 371.5237 Sheet 6 of 11

IFB CLK Instruction register ٠3 **DECB** CLK Decode signal register -6 **EXB** ALUA ALUB ALUCNT Critical data 49 **-50** generator -53 -54 -56 **-**55 58 -59 10 1112 19 16 -65 **ALU ALU** 22 66-23-25 -64 **Execution time** measurement -28 unit 26 27 PALUSEL(3:1) Register 33 39 D Q CK NQ DRVFS Comparator 32 CLK -34

FIG. 6

Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P Mueller Phone No.: 612.371.5237 Sheet 7 of 11

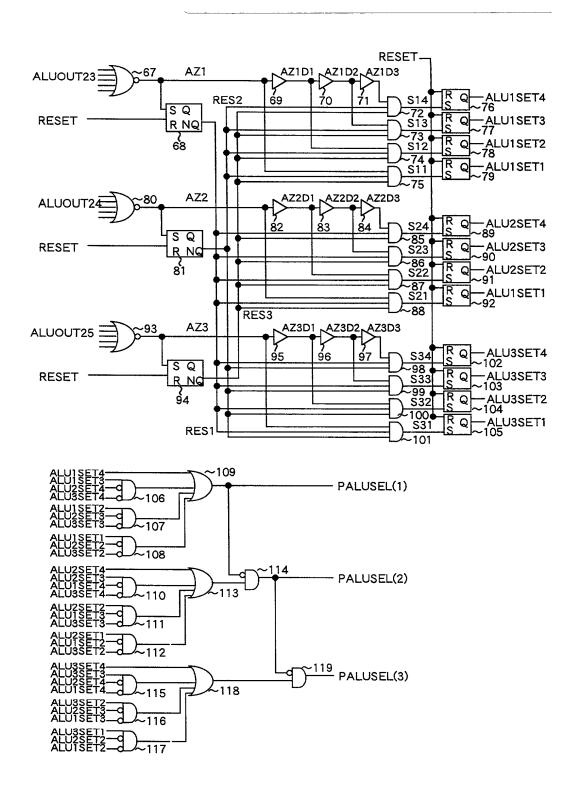


FIG. 7

Inventor: Akimitsu SHIMAMURA Docket No.: 10873, 785US01 Title. COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No: 612.371.5237

Sheet 8 of 11

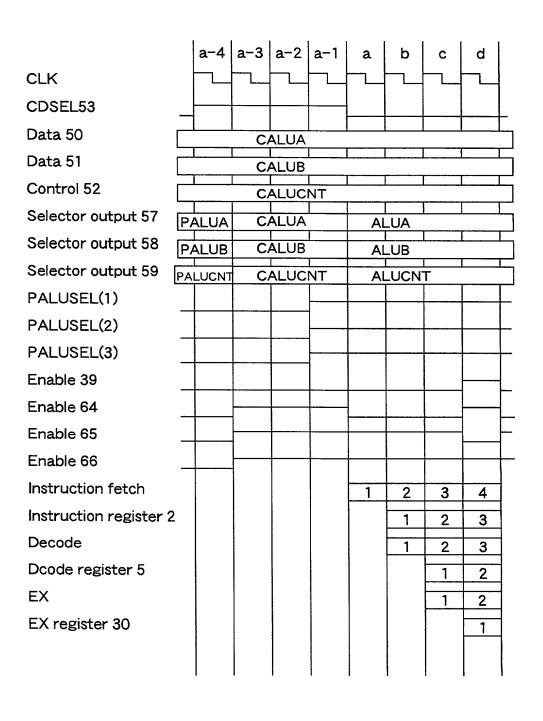


FIG. 8

Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title COMPUTER SYSTEM Attorney Name Douglas P. Mueller Phone No 612.371.5237 Sheet 9 of 11

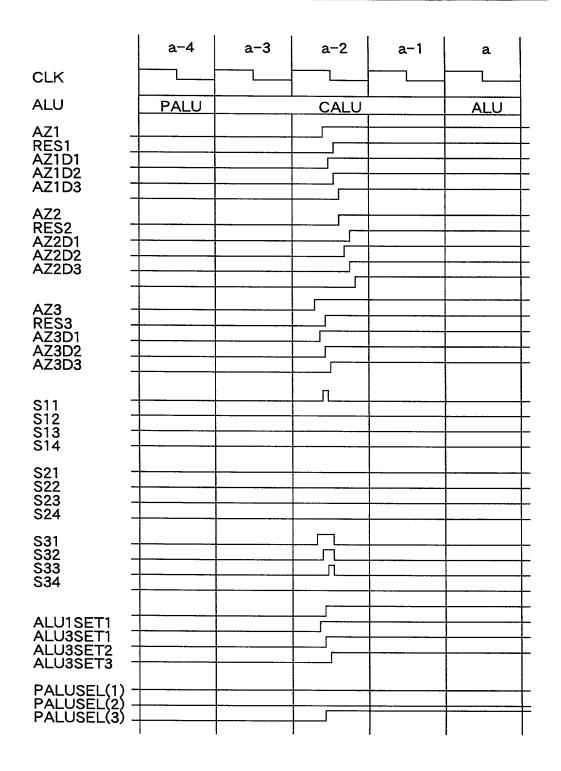


FIG. 9

Inventor: Akimitsu SHIMAMURA Docket No.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No 612.371.5237 Sheet 10 of 11

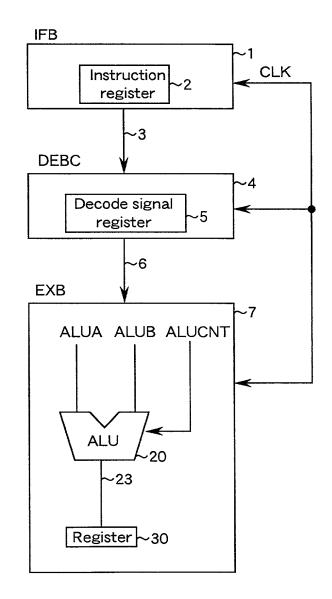


FIG. 10 (PRIOR ART)

Inventor: Akimitsu SHIMAMURA Docket'No.: 10873.785US01 Title: COMPUTER SYSTEM Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237

Sheet 11 of 11

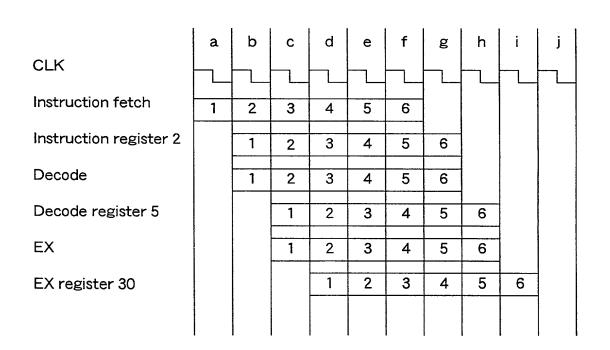


FIG. 11 (PRIOR ART)